

The listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

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1. (currently amended): A method of preconditioning a an adsorbent resin useful for removal of organic impurities from a hydrogen peroxide solution, comprising the steps of:

- (a) rinsing the adsorbent resin with deionized water;
- (b) contacting the adsorbent resin with an acid solution; and
- (c) rinsing the acid-treated adsorbent resin with deionized water.

2. (original): The method of claim 1, wherein the acid solution is selected from the group consisting of a hydrochloric acid solution, a nitric acid solution and a sulfuric acid solution.

3. (original): The method of claim 2, wherein the acid solution is a hydrochloric acid solution.

4. (original): The method of claim 3, wherein the molar ratio of hydrochloric acid to water in the hydrochloric acid solution is from about 1:100 to 1:90.

5. (original): The method of claim 1, wherein step (b) is conducted for from about 3 to 8 hours.

6. (currently amended): The method of claim 1, wherein step (b) comprises soaking the adsorbent resin in the acid solution in a batch mode.


7. (currently amended): The method of claim 6 1, wherein step (b) further comprises separating the acid solution into a first portion and a second portion, soaking the adsorbent resin in the first portion of the acid solution in a batch mode, separating the adsorbent resin and from the first portion of the acid

solution and ~~contacting~~ rinsing the adsorbent resin with a the second portion of the acid solution, ~~which is of the same type and concentration as the acid solution.~~

8. (currently amended): The method of claim 1, wherein the contacting in step (b) comprises introducing the adsorbent resin and the acid solution into a vessel separating the adsorbent resin and the acid solution and contacting the adsorbent resin with a second acid solution.

9. (currently amended): The method of claim 1, wherein the adsorbent resin is hydrophobic.

10. (currently amended): The method of claim 9, wherein the adsorbent resin is AMBERLITE XAD-4 or AMBERSORB 563.

 11. (currently amended): A An adsorbent resin preconditioned by the method of claim 1.

12. (currently amended): The adsorbent resin of claim 11, wherein the adsorbent resin is hydrophobic.

13. (currently amended): The adsorbent resin of claim 11, wherein the adsorbent resin is AMBERLITE XAD-4 or AMBERSORB 563.

14. (currently amended): The adsorbent resin of claim 11, wherein the adsorbent resin is effective to maintain an essentially constant temperature when contacted with a hydrogen peroxide solution for at least eleven hours.

15. (currently amended): A method of removing organic impurities from a hydrogen peroxide solution, comprising passing the hydrogen peroxide solution through a column containing a an adsorbent resin bed, wherein the adsorbent

resin making up the adsorbent resin bed has been preconditioned by a method comprising the steps of:

- (a) rinsing the adsorbent resin with deionized water;
- (b) contacting the adsorbent resin with an acid solution; and
- (c) rinsing the acid treated adsorbent resin with deionized water.

16. (original): The method of claim 15, wherein the hydrogen peroxide solution has a hydrogen peroxide concentration of 50 wt% or less.

17. (original): The method of claim 16, wherein the hydrogen peroxide solution has a hydrogen peroxide concentration of about 30 wt%.

18. (currently amended): The method of claim 15, wherein the adsorbent resin is hydrophobic.

W 19. (currently amended): The method of claim 18, wherein the adsorbent resin is AMBERLITE XAD-4 or AMBERSORB 563.

20. (original): The method of claim 15, wherein the temperature of the hydrogen peroxide solution inside the column is essentially constant during the step of passing the hydrogen peroxide solution through the column.

21. (currently amended): The method of claim 15, wherein the hydrogen peroxide concentration in the hydrogen peroxide solution is maintained essentially constant during the step of contacting the adsorbent resin with the hydrogen peroxide solution.

22. (original): The method of claim 15, wherein the hydrogen peroxide solution is passed through the column in an upflow mode.

23. (original): The method of claim 15, further comprising passing the hydrogen peroxide solution through a second column for removing organic impurities from

the hydrogen peroxide solution, connected in series with and downstream from the first column.

24. (currently amended): The method of claim 15, further comprising passing the hydrogen peroxide solution through one or more columns containing an ion-exchange resin bed after passing the hydrogen peroxide solution through the column containing the preconditioned adsorbent resin.

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